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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/125,711	03/04/1999	THOMER SHALIT	097037	8095	
22903 7.	22903 7590 12/03/2003			EXAMINER	
COOLEY GODWARD LLP ATTN: PATENT GROUP 11951 FREEDOM DRIVE, SUITE 1700 ONE FREEDOM SQUARE- RESTON TOWN CENTER RESTON, VA 20190-5061			DINH, DUC Q		
			ART UNIT	PAPER NUMBER	
			2674	5	
			DATE MAILED: 12/03/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary						
		09/125,711	SHALIT, THOMER			
		Examiner	Art Unit			
		DUC Q DINH	2674			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover she	eet with the correspondence address			
THE External	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reply openiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, in within the statutory minimum ill apply and will expire SIX (6 cause the application to become	may a reply be timely filed of thirty (30) days will be considered timely. 3) MONTHS from the mailing date of this communication. ome ABANDONED (35 U.S.C. § 133).			
1)⊠	Responsive to communication(s) filed on 30 Oc	<u>ctober 2003</u> .				
2a) <u></u> □	This action is FINAL . 2b)⊠ This a	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	4) Claim(s) 17-20,22-33 and 35-54 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 17-20,22-33 and 35-54 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
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9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
.0,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (ınder 35 U.S.C. §§ 119 and 120					
* S 13)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of Acknowledgment is made of a claim for domestic ince a specific reference was included in the first 7 CFR 1.78. 1) The translation of the foreign language proved the company of the foreign language proved the company of the first sentence of the company of the company of the first sentence of the company of the	s have been received the have been received ity documents have a priority and a priority under 35 U. It sentence of the special application has priority under 35 U.	d in Application No been received in this National Stage s not received. S.C. § 119(e) (to a provisional application) ecification or in an Application Data Sheet. has been received. S.C. §§ 120 and/or 121 since a specific			
Attachmen		_				
2) Notic	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>49</u>	5) Notic	view Summary (PTO-413) Paper No(s) ce of Informal Patent Application (PTO-152) r:			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/30/2003 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 3. Claims 17-20, 23, 25-33, 35-37, 39-42 are rejected under 35 U.S.C. 102(e) as being anticipated by Rohen (5,186,629).

In reference to claims 17 and 30 Rohen discloses FIG. 1 the overall system of the preferred embodiment which includes a computer 11 connected to the mouse housing 17 by a signal line having tactile feedback, which is shown in more detail in FIG. 2 a perspective view of

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a mouse 17 incorporating a tactile feedback area 33. The feedback to a user is a very mild AC signal. This AC signal is adjustable in both voltage and current so as to give a mild tingling sensation at the fingertip holding the mouse. The sensation is similar to the touching of an electrical appliance having a small leakage current that is seeking a ground return through the persons body (col. 5, lines 12-21). In addition, Rohen discloses in Fig. 3 a conductive area 33 is shown in which a single finger will be in contact with the different voltage potentials of the tactile electrical output of the mouse 17. The conductive area 33 comprises a group of concentric circles separated by insulating space. Circles 35 and 39 are electrically connected to terminal A and circle 37 and center circle 41 are connected to terminal B. A finger placed onto area 33 will be able to sense the current and voltage between terminals A and B as tactile feedback from the computer (col. 6, lines 11-21). FIG. 4 shows an alternate embodiment of the tactile feedback transducer as a vibrator (movement generator) or tone source which will be made to vary in intensity and/or frequency as the mouse 17 is moved to present different parts of the buffer information to the user (see Fig. 4, col. 6, lines 23-38).

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In reference to claims 18-20 and 31-33, Rohen disclose in Fig.4 an alternate embodiment of the tactile feedback transducer as a vibrator or tone source which will be made to vary in intensity and/or frequency as the mouse 17 is moved to present different parts of the buffer information to the user.

In reference to claim 36, Rohen discloses in Fig.2 that the feedback area 33 is in the casing portion of the mouse.

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In reference to claims 23, 35 and 37, Rohen discloses in FIG. 5 shows the essential components required to furnish an AC tactile feedback signal from a low DC voltage available from the computer to which the mouse is attached, or from a battery if the mouse has a wireless connection to the computer. The DC voltage source 51 is applied to a switching circuit 53 which changes it to a sequence of pulsations under control of the feedback signal from the computer. The frequency of the pulsations are controlled by the feedback signal. The output of the switching circuit 53 is applied to the primary 55 of a transformer. The ratio of the turns in the primary winding 55 to the secondary winding 57 of the transformer determines the magnitude of the voltage available at the secondary. Taps 59, 60, and 61 on the secondary allow the magnitude of the voltage to be tailored to the user. Likewise the current limiting resistors 63 and 65 in series with the secondary voltage allow voltage is applied across terminals A and B to drive either the electrical transducer of FIG. 3 or the vibratory transducer of FIG. 4 (col. 6, lines 39-58).

In reference to claims 25-29, 39-42, Rohen discloses in FIG. 8 a selected window contains a listing of applications available and their respective icons. The user enters and explores this window with the mouse. The user determines the window edges by feel and the audio beeps, and identifies the icons and associated text by feeling, clicking, and listening to the vocal responses (col. 8, lines 30-38). In addition, Rohen discloses that the signal defines a frequency indicative of the color of the information being presented. For example, the color red is a lower frequency and blue is a high frequency. This signal is then sent to the mouse 17 where

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it is applied to the feedback input 52 of the circuits shown in FIG. 5 to actuate the transducer of FIG. 3 or FIG. 4 at the defined frequency (see Fig. 6, lines 17-21).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 22, 43-45 and 47-54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cohen.

In reference to claims 22, 43-45 and 47-54, Cohen disclose everything (claim 43-45 and 47-54 are method claims corresponding to the apparatus claims 17-23, 25-33, 35-37 and 39-42) except "generating a movement of a casing portion of the mouse with respect to a bottom portion of the mouse device ...".

Absent a showing of critically and/or unexpected result, it would been obvious to one of ordinary skill in the art to relocate the feedback area 33 to the bottom portion of the mouse as desired as was judicially recognized with IN RE JAPIKEE USPQ 70 (CCPA 1950), which recognizes that the relocation of well known element is normally not desired toward patentable subject matter.

6. Claims 22, 24, 38 and 43-54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rohen in view Affinito et al. (4,868,549), hereinafter Affinito.

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In reference to claims 22, 24, 38 and 43-54, Rohen discloses everything except the actuator is an electromagnetic actuator and Affinito disclose a feedback mouse using electromagnet (see abstract and Fig.5) and generating a movement of a casing portion of the mouse with respect to a bottom portion of the mouse device ... (See Fig. 2, col. 6, lines 50-65)

It would have been obvious for one of ordinary skill in the art at the time of the invention was made to provide the electromagnet of Affinito for the feedback 33 of Rohen because it would produce a strong magnetic field which causes increased resistance to further movement of the mouse across the surface (col. 3, lines 45-47).

Response to Arguments

7. Applicant's arguments, see pages 9-12 of the Amendment filed on 10/30/03, with respect to the rejection(s) of claim(s) 17-23, 25-33, 39-45 and 47-54 under 102(e) have been fully considered but are persuasive. With respect to the argument states that "Rohen fails to discloses a resilient material coupled to said housing configured to enable said delivery of said tactile sensation by storing and releasing energy." Rohen discloses the conductive area 33 will be contact with different voltage potential of the tactile electrical output of the mouse 17 and a feedback transducer as a vibrator which will be made to vary the intensity and/or frequency as the mouse is moved to present different part of the buffer information to the user (which receiving electrical energy storing it and releasing electrical energy as output vibrating sensation). With respect to the rejection of claims 43-54, refer to the new ground of rejections a applied to those claims as elaborated in this Office Action. The rejection, is maintained.

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Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **DUC Q DINH** whose telephone number is (703) 306-5412 The examiner can normally be reached on Mon-Fri from 8:00.AM-4:00.PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHARD A HJERPE can be reached on (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivery response should be brought to: Crystal Park II, 2121 Crystal Drive, Arlington, Va Sixth Floor (Receptionist)

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 305-4700.

DUC Q DINH Examiner Art Unit 2674

DQD November 30, 2003

RICHARD MUERPE SUPERVISORY PATENT EXCENTED

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